

VEP-KH-792 Circuit Description

The 315MHz crystal oscillator drives the base of IC the final/buffer amplifier. The modulation provided by IC. The output of IC has the matching network consisting of R3, L1, L2, C5, C6 and C7 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

Antenna, Ground and Power Source

The antenna consists of a 5.7cm long Metal antenna. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 3 Volt (“CR2032” size battery x 1) primary battery

Operation Descriptions

The transmitter is a remote control operating at 315MHz band. The transmitter is powered by a 3V battery (“CR2032” size battery x 1) and the transmitting frequency is crystal controlled. The operation is achieved by different combinations of form pulse modulating signal on the 315MHz carrier frequency.

Remarks:

When the button of the transmitter is pressed, the oscillator is turned on and off by the encoded signal from encoder HT12E. The Modulated signal is then transmitted through the antenna.